



PATENT ABSTRACTS OF JAPAN

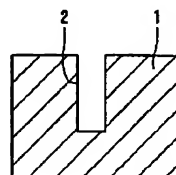
(11) Publication number: **2001288554 A**(43) Date of publication of application: **19.10.2001**(51) Int. Cl. **C23C 4/06**B23K 20/00, B23K 20/14, C23C 4/10, C23C 4/12, F01D 5/28,
F02C 7/00// B23K 35/30, C22C 19/05
B23K103:16(21) Application number: **2000099732**(22) Date of filing: **31.03.2000**(71) Applicant: **TOSHIBA CORP**(72) Inventor: **NAKABASHI MASAKO****FUKUDA MASAFUMI****ASAI SATORU****FUSE TOSHIAKI****NISHIMOTO KAZUTOSHI****SAIDA KAZUYUKI****(54) REPAIRING MATERIAL, METHOD FOR
REPAIRING HEAT RESISTING ALLOY
MEMBER, AND HOT ZONE PARTS REPAIRED
BY THE METHOD**of Ni and containing, by weight, $\leq 6.0\%$ Cr and 1.0-
3.5% B.

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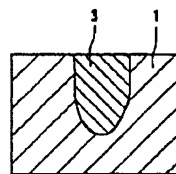
(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a repairing material for repairing the cracks and wall-thickness loss of a heat resisting alloy member having controlled crystal structure, e.g. a member made of unidirectionally solidified alloy or single crystal alloy, particularly a γ -strengthened type heat resisting alloy member, to obtain a method for repairing a heat resisting alloy member, by which the resultant repaired part can be provided with a crystal-structure-controlled structure equal to that of the heat resisting alloy member and properties equal to those of the heat resisting alloy member, and also to obtain hot zone parts repaired by the method.

SOLUTION: The repairing material 3 is used for repairing the defective part, such as cracks and wall-thickness loss, of the heat resisting alloy member 1 having controlled crystal structure, particularly a γ -strengthened type Ni-base alloy member. The repairing material 3 has a composition composed essentially



(a)



(b)

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